

## **REMARKS**

Claims 12, 16, 24, and 35 have been amended. Claims 13, 15, 25, and 36 have been canceled. Thus, Claims 12, 14, 16-24, 26-35, and 37-44 are pending in this application.

### **II. Claim Objections under 35 U.S.C. §112**

Claim 13 has been objected to because of informalities. Claim 13 has been canceled.

### **III. Claim Rejection under 35 U.S.C. §102**

The Examiner rejected claims 12-44 under 35 U.S.C. §102(b) as being anticipated by Little. The Examiner stated that Little teaches an assembly having all the limitations of the above mentioned claims. Applicant respectfully disagrees. The rejected claims comprises limitations neither shown nor suggested by Little. To this end, Applicant amended the independent claims to include the limitation that the interior lumen of the heat sink forms a portion of the coolant circulation channel loop, formerly claimed in claims 13, 25, and 36. Thus, no new matter has been introduced.

According to the independent claims 12, 24, and 35, the thermal management system includes a multilayer printed circuit board (PCB) as a carrier or support structure for the heat generating device. A multilayer printed circuit board provides for multiple layers wherein each layer comprises printed circuit tracks. Furthermore, the single layers of a multiple layer PCB consist of the same material.

Little does neither disclose nor suggest the use of a multilayer printed circuit board. On the contrary, Little teaches at best a single layer having printed circuit tracks in Fig. 17. Furthermore, Little is completely silent with respect to a coolant circulation channel loop as claimed in the independent claims. In particular, the Examiner stated that a heat sink inherently comprises an interior lumen. Applicant respectfully disagrees. In particular Fig. 1 of the present application shows a heat sink as it is commonly used in the art. This heat sink does not comprise any kind of interior lumen, let alone a lumen that forms a part of a coolant circulation loop. Moreover, Little is silent with respect to what kind of device supplies the coolant to the

cooling device. Therefore, Applicant believes that Little does not anticipate the present invention.

The dependent claims 14, 16-23, 26-34, and 37-44 are dependent claims and, thus, include all the limitations of the respective independent claims. Therefore, these claims are patentable at least to the extent of the respective independent claims.

### SUMMARY

In light of the above remarks, reconsideration and withdrawal of the outstanding rejection is respectfully requested. It is further submitted that the application is now in condition for allowance and early notice of the same is earnestly solicited. Should the Examiner have any questions, comments or suggestions in furtherance of the prosecution of this application, the Examiner is invited to contact the agent of record by telephone or facsimile.

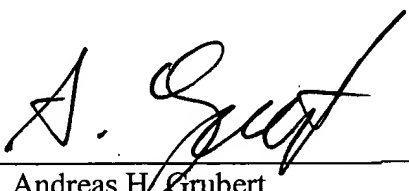
Applicants do not believe that any other fees are due at this time; however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to this document, the Commissioner is authorized to deduct the fees from Deposit Account No. 02-0383, (*formerly Baker & Botts, L.L.P.*) Order Number 068736.0111.

Respectfully submitted,

BAKER BOTTS L.L.P.

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By: \_\_\_\_\_

  
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